

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE/ United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING D	DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/944,506	08/30/2	2001	Pai-Hung Pan	2919.5US (96-499.2)	4348
24247	7590	04/22/2004		EXAMINER	
TRASK BRITT				FOURSON III, GEORGE R	
P.O. BOX 25		4110		ART UNIT	PAPER NUMBER
SALT LAKE CITY, UT 84110		7110		2823	

DATE MAILED: 04/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

· · · · · · · · · · · · · · · · · · ·		Application No.	Applicant(s)	64				
		09/944,506	PAN, PAI-HUNG	<i>U</i> –				
Office A	ction Summary	Examin r	Art Unit					
		George Fourson	2823					
The MAILING Period for Reply	DATE of this communication app	pears on the cover sh t with the co	orresp ndence address	S				
THE MAILING DAT - Extensions of time may be after SIX (6) MONTHS from the period for reply specified for reply is specified to reply within the Any reply received by the	E OF THIS COMMUNICATION. e available under the provisions of 37 CFR 1.1 om the mailing date of this communication. cified above is less than thirty (30) days, a repl pecified above, the maximum statutory period set or extended period for reply will, by statute	Y IS SET TO EXPIRE 3 MONTH(36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from b, cause the application to become ABANDONE g date of this communication, even if timely filed	nely filed s will be considered timely. the mailing date of this commun (D) (35 U.S.C.§ 133).	nication.				
Status								
1) Responsive to	o communication(s) filed on 12 J	anuary 2004.						
2a)⊠ This action is	· · · <u>_</u>	s action is non-final.						
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disp sition of Claims								
4a) Of the above 5) ☐ Claim(s) 6) ☒ Claim(s) <u>1-24</u> 7) ☐ Claim(s)		wn from consideration.						
Application Papers								
9)☐ The specificat	ion is objected to by the Examine	er.						
10) The drawing (s	0)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
• • • • • • • • • • • • • • • • • • • •		drawing(s) be held in abeyance. See						
		tion is required if the drawing(s) is ob carniner. Note the attached Office						
Priority under 35 U.S.	C. § 119							
a) All b) S 1. Certifie 2. Certifie 3. Copies applica	come * c) None of: d copies of the priority document d copies of the priority document of the certified copies of the prio tion from the International Burea	s have been received in Applicati	on No ed in this National Stag	l e				
Attachment(s)								
1) Notice of References C		4) Interview Summary						
·	's Patent Drawing Review (PTO-948) Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da 5) ☐ Notice of Informal P 6) ☐ Other:	ate Patent Application (PTO-152))				

Application/Control Number: 09/944,506

Art Unit: 2823

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 5,7-12,14,16 and 18-24 are rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 5-12 of prior U.S. Patent No. 6,322,634. This is a double patenting rejection.

Applicant argues that the claims of the patent require an oxidation resistant material. However, claims 5-12 do not. Also, applicant has not established that "active surface" excludes the semiconductor surface of the claims.

Claims 1,2,3,4,6,17,15 and 17 are rejected under judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 5-12 of U.S. Patent No. 6,322,634. Although the conflicting claims are not identical, they are not patentably distinct from each other because claims 1,2,3,4,6,13,15 and 17 are generic to claims 5-12 of U.S. Patent No. 6,322,634 in that they do not require the trench fill material to be densified. See MPEP 8û6.û4(i).

Applicant is advised that should claim 7 be found allowable, claim 20 will be objected to under 27 CFR 1.75 as being a substantial duplicate thereof. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP q 706.03(k).

Application/Control Number: 09/944,506

Art Unit: 2823

Claims 1,2,3,4,6,12,15 and 17 are rejected under 35 U.S.C. 102(b) as being anticipated by Mandelman et al.

See figures 4a and 4b and column 5, lines 13-15. The intermediate structure wherein the insulator 18a is polished and prior to removal of buffer layer 12 is not depicted.

The thermal oxide layer 34 forms a portion of the isolation structure.

Claims 1,2,7,4,6,13,15 and 17 are rejected under 35 U.S.C. 1û2(b) as being anticipated by Morita et al.

See figure 72.

The trench liner forms a portion of the isolation structure.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group Receptionist whose telephone number is (571) 272-2800. See MPEP 203.08.

Art Unit: 2823

Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner George Fourson whose telephone number is (571)272-1860. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Olik Chaudhuri, can be reached on (571)272-1855. The fax number for this group is (571)273-0224 and the customer service number for group 2800 is 571-272-2815. Updates can be found at http://www.uspto.gov/web/info/2800.htm.

George Fourson
Primary Examiner
Art Unit 2823

GFourson April 19, 2004